Center Independent Research & Development: GSFC IRAD

Innovative Low Power AWG and Data Acquisition for Spaceborne SAR (FDM)

Completed Technology Project (2013 - 2014)

Project Introduction

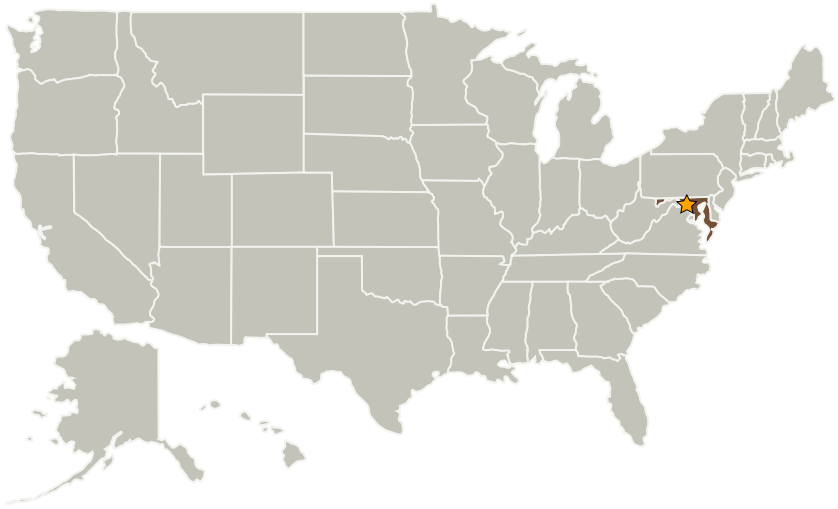
This project will develop an advanced space-based radar architecture

The proposed technique will reduce parts count, mass, and, in particular, power consumption of an airborne or spaceborne phased-array radar system.

Anticipated Benefits

Planetary applications

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland

Project Website:

http://sciences.gsfc.nasa.gov/sed/

Innovative Low Power AWG and Data Acquisition for Spaceborne SAR

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Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:

Peter M Hughes

Project Manager:

Terence A Doiron

Principal Investigator:

Hollis H Jones

Co-Investigators:

Rafael Rincon
Lola Fatoyinbo

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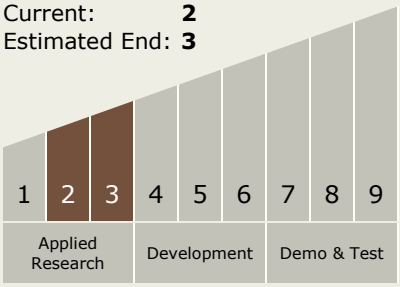
Technology Maturity (TRL)

Start: **2**
Current: **2**
Estimated End: **3**



Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.4 Microwave, Millimeter-, and Submillimeter-Waves